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CDC Health Advisory

Distributed via Health Alert Network July 5, 2013, 12:00 PM 10297-CAD-07-05-2013-H3N2v

Variant Influenza Virus (H3N2v) Infections

Summary: This Health Alert Network Health Advisory provides an update on H3N2 variant virus (or "H3N2v") activity and summarizes CDC's updated H3N2v case definitions and recommendations for H3N2v surveillance for the summer and fall of 2013. **It supersedes the last H3N2v-related HAN Health Advisory, HAN 325, which was issued August 3, 2012.**

Background

The first cases of influenza A (H3N2) variant (H3N2v) virus infection this year were reported in June 2013. These cases were associated with exposure to swine at an agricultural fair prior to illness onset.

H3N2v viruses with the matrix (M) gene from the 2009 H1N1 pandemic virus were first detected in people in 2011 and were responsible for a multi-state outbreak in the summer of 2012 that resulted in 306 cases, including 16 hospitalizations and 1 fatality. Genetic sequencing by CDC has confirmed that H3N2v viruses isolated in June 2013 are nearly identical to those detected during summer 2012. Most cases of H3N2v identified during 2012 were associated with exposure to pigs at agricultural fairs. Agricultural fairs take place across the United States every year, primarily during the summer months and into early fall. Many fairs have swine barns, where pigs from different places come in close contact with each other and with people. These venues may allow spread of influenza viruses both among pigs and between pigs and people. Data indicate that infected pigs may spread influenza viruses even if they are not symptomatic (e.g., coughing and/or sneezing). Although instances of limited person-to-person spread of this virus have been identified in the past, sustained or community-wide transmission of H3N2v has not occurred.

Clinical characteristics of the 2012 and 2013 H3N2v cases have been generally consistent with those of seasonal influenza, and have included fever, cough, pharyngitis, myalgia, and headache. Of the 16 H3N2v hospitalized patients, most were at increased risk for complications of influenza because of age or the presence of an underlying medical condition. None of the persons ill with 2013 H3N2v infection have been hospitalized, and no deaths have occurred among them.

Rapid detection and characterization of novel influenza viruses remain important components of national efforts to prevent further cases and evaluate clinical illness associated with these viruses. As a result, clinicians are reminded to consider influenza as a possible diagnosis when evaluating patients with acute respiratory illnesses, and clinicians should consider the possibility of H3N2v in persons presenting with respiratory illness and recent swine contact or attendance at an agricultural fair. The H3N2v case definitions for 2013 (http://www.cdc.gov/flu/swineflu/case-definitions.htm) include laboratory-confirmed cases and cases under investigation for H3N2v virus infection; the probable case definition used in 2012 has been deleted.

CDC anticipates that state health departments will identify more H3N2v cases in 2013 as agricultural fair season continues. The number of cases may exceed those identified last year, and CDC recommends a surveillance strategy for 2013 designed primarily to identify increases in person-to-person transmission or clinical severity. Testing for H3N2v should focus primarily on persons with exposures known to be associated with H3N2v virus infection (e.g., fair attendance) and in settings where person-to-person transmission has been identified previously (e.g., influenza-like illness outbreaks in child-care centers). For more information on 2013 testing recommendations, please see

http://www.cdc.gov/flu/swineflu/h3n2v-surveillance.htm. Novel influenza A virus infections, which include those caused by H3N2v, remain notifiable conditions in the United States, and all confirmed cases should be reported to CDC within 24 hours.

CDC continues to share information and guidance for local and state public health officials regarding the surveillance and investigation of human infections with H3N2v. This information is available at http://www.cdc.gov/flu/swineflu/h3n2v-publichealth.htm.

Recommendations for H3N2v for clinicians, public health practitioners, and the public for the summer and fall of 2013 are summarized below:

Recommendations for Health Care Providers and Public Health Practitioners

- Clinicians who suspect influenza in persons with recent exposure to swine should obtain a
 nasopharyngeal swab or aspirate from the patient, place the swab or aspirate in viral transport
 medium, and contact their state or local health department to arrange transport and request a timely
 diagnosis at a state public health laboratory.
- Commercially available rapid influenza diagnostic tests (RIDTs) may not detect H3N2v virus in
 respiratory specimens. Therefore, a negative rapid influenza diagnostic test result does not exclude
 infection with H3N2v or any influenza virus. In addition, a positive test result for influenza A cannot
 confirm H3N2v virus infection, because these tests cannot distinguish between influenza A virus
 subtypes (i.e., they do not differentiate between other human influenza A viruses and H3N2v virus).
 Therefore, respiratory specimens should be collected and sent for sub-type specific real-time
 polymerase chain reaction (RT-PCR) testing at a state public health laboratory.
- Enhanced surveillance for influenza during agricultural fair season is recommended to facilitate timely
 detection and investigation of H3N2v cases. Recommendations for influenza surveillance and testing
 can be found at http://www.cdc.gov/flu/swineflu/h3n2v-surveillance.htm.
- Clinicians should consider antiviral treatment with oral oseltamivir or inhaled zanamivir in patients with suspected or confirmed H3N2v virus infection. Antiviral treatment is most effective when started as soon as possible after influenza illness onset. For more information on antiviral treatment for H3N2v virus infections, please see http://www.cdc.gov/flu/swineflu/h3n2v-treatment.htm.

Recommendations for the Public

- Persons who are at high risk for influenza complications² should avoid exposure to pigs and swine barns at fairs this year.
- Persons engaging in activities that may involve swine contact at fairs should wash their hands
 frequently with soap and running water before and after exposure to animals; avoid eating or drinking
 in animal areas; and avoid close contact with animals that look or act ill. For additional information,
 please see http://www.cdc.gov/flu/swineflu/h3n2v-fairs-factsheet.htm.
- Patients with influenza-like illness who are at high risk for influenza complications² should see their health care provider promptly to determine if treatment with antiviral medications is warranted.
- Patients who experience influenza-like symptoms following direct or close contact with pigs and who seek medical care should inform their health care provider about the exposure.
- Influenza viruses have not been shown to be transmissible to people through eating properly handled and prepared pork or other products derived from pigs. For more information about the proper handling and preparation of pork, visit the USDA website fact sheet "Fresh Pork from Farm to Table" at http://www.fsis.usda.gov/wps/wcm/connect/27f02652-e30e-4772-83af-23aaabba220b/Pork from Farm to Table.pdf?MOD=AJPERES.

For more information:

 "Interim Guidance on Case Definitions to be Used for Investigations of Influenza A (H3N2) Variant Virus Cases" for state and local health departments is available at http://www.cdc.gov/flu/swineflu/case-definitions.htm.

- "Prevention Strategies for Seasonal and Influenza A(H3N2)v in Health Care Settings" is available at http://www.cdc.gov/flu/swineflu/prevention-strategies.htm.
- "Interim Guidance on Specimen Collection, Processing and Testing for Patients with Suspected Influenza A (H3N2) Variant Virus Infection" for public health professionals is available at http://www.cdc.gov/flu/swineflu/h3n2v-testing.htm, and
- "Interim Guidance for Enhanced Influenza Surveillance: Additional Specimen Collection for Detection
 of Influenza A (H3N2) Variant Infections" for state and local health departments is available at
 http://www.cdc.gov/flu/swineflu/h3n2v-surveillance.htm.
- "Measures to Minimize Influenza Transmission at Swine Exhibitions, 2013" is available at http://nasphv.org/Documents/NASAHO-NASPHV-InfluenzaTransmissionAtSwineExhibitions2013.pdf
- "Compendium of Measures to Prevent Disease Associated with Animals in Public Settings, 2011" is available at http://nasphv.org/documentsCompendiumAnimals.html

Influenza viruses that circulate in swine are called swine influenza viruses when isolated from swine, but are called variant viruses when isolated from humans.

²This includes persons with certain underlying chronic medical conditions such as asthma, diabetes, heart disease, or neurological conditions, pregnant women, and persons younger than 5 years, older than 65 years of age, or who have weakened immune systems. For additional information on persons at increased risk for influenza complications, please see http://www.cdc.gov/flu/about/disease/high_risk.htm.

The Centers for Disease Control and Prevention (CDC) protects people's health and safety by preventing and controlling diseases and injuries; enhances health decisions by providing credible information on critical health issues; and promotes healthy living through strong partnerships with local, national, and international organizations.

DHEC contact information for reportable diseases and reporting requirements

Reporting of diseases is consistent with South Carolina Law requiring the reporting of diseases and conditions to your state or local public health department. (State Law # 44-29-10 and Regulation # 61-20) as per the DHEC 2013 List of Reportable Conditions available at: http://www.scdhec.gov/health/disease/reportables.htm

Federal HIPAA legislation allows disclosure of protected health information, without consent of the individual, to public health authorities to collect and receive such information for the purpose of preventing or controlling disease. (HIPAA 45 CFR §164.512).

Regional Public Health Offices - 2013

Mail or call reports to the Epidemiology Office in each Public Health Region.

LOW COUNTRY PUBLIC HEALTH REGION

Berkeley, Charleston, Dorchester

4050 Bridge View Drive, Suite 600 N. Charleston, SC 29405 Phone: (843) 953-0043 Fax: (843) 953-0051

Nights / Weekends: (843) 441-1091

Beaufort, Colleton, Hampton, Jasper

219 S. Lemacks Street Walterboro, SC 29488 Phone: (843) 549-1516 Fax: (843) 549-6845

Nights / Weekends: (843) 441-1091

Allendale, Bamberg, Calhoun, Orangeburg

PO Box 1126

1550 Carolina Avenue Orangeburg, SC 29116 Phone: (803) 268-5866 Fax: (843) 549-6845

Nights / Weekends: (843) 441-1091

MIDLANDS PUBLIC HEALTH REGION

Kershaw, Lexington, Newberry, Richland

2000 Hampton Street Columbia, SC 29204 Phone: (803) 576-2749 Fax: (803) 576-2993

Nights / Weekends: (888) 554-9915

Chester, Fairfield, Lancaster, York

PO Box 817

1833 Pageland Highway Lancaster, SC 29720 Phone: (803) 286-9948 Fax: (803) 286-5418

Nights / Weekends: (888) 554-9915

Aiken, Barnwell, Edgefield, Saluda

222 Beaufort Street, NE Aiken, SC 29801 Phone: (803) 642-1618 Fax: (803) 643-8386

Nights / Weekends: (888) 554-9915

PEE DEE PUBLIC HEALTH REGION Chesterfield, Darlington, Dillon, Florence, Marlboro, Marion

145 E. Cheves Street Florence, SC 29506 Phone: (843) 661-4830

Fax: (843) 661-4859

Nights / Weekends: (843) 915-8845

Clarendon, Lee, Sumter

PO Box 1628

105 North Magnolia Street Sumter, SC 29150 Phone: (803) 773-5511 Fax: (803) 775-9941

Nights/Weekends: (843) 915-8845

Georgetown, Horry, Williamsburg

1931 Industrial Park Road Conway, SC 29526-5482 Phone: (843) 915-8804 Fax: (843) 365-0085

Nights/Weekends: (843) 915-8845

UPSTATE PUBLIC HEALTH REGION

Anderson, Oconee

220 McGee Road Anderson, SC 29625 Phone: (864) 260-5801 Fax: (864) 260-5623

Nights / Weekends: (866) 298-4442

Abbeville, Greenwood, Laurens, McCormick

1736 S. Main Street Greenwood, SC 29646 Phone: (864) 227-5947 Fax: (864) 942-3690

Nights / Weekends: (888) 298-4442

Cherokee, Greenville, Pickens

PO Box 2507 200 University Ridge Greenville, SC 29602-2507 Phone: (864) 372-3133 Fax: (864) 282-4373

Nights / Weekends: (866) 298-4442

UPSTATE PUBLIC HEALTH REGION

(continued)

Spartanburg, Union PO Box 2507

200 University Ridge Greenville, SC 29602-2507

Phone: (864) 372-3133 Fax: (864) 282-4373

Nights / Weekends: (866) 298-4442

<u>DHEC Bureau of Disease Control</u> Division of Acute Disease Epidemiology

1751 Calhoun Street Box 101106

Columbia, SC 29211 Phone: (803) 898-0861 Fax: (803) 898-0897

Nights / Weekends: (888) 847-0902



South Carolina Department of Health

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Categories of Health Alert messages:

Health Alert Conveys the highest level of importance; warrants immediate action or attention.

Health Advisory Health UpdateProvides important information for a specific incident or situation; may not require immediate action.

Provides updated information regarding an incident or situation; unlikely to require immediate action.